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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/618,637	07/15/2003	Jin-Young Mok	P-0552	5668
34610	7590	05/04/2006	EXAMINER	
FLESHNER & KIM, LLP P.O. BOX 221200 CHANTILLY, VA 20153			NGUYEN, TU X	
			ART UNIT	PAPER NUMBER
			2618	

DATE MAILED: 05/04/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No. 10/618,637	Applicant(s) MOK, JIN-YOUNG	
	Examiner Tu X. Nguyen	Art Unit 2618	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 16 March 2006.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-7 and 18-32 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-7, 18, 19 and 29-32 is/are rejected.
- 7) ☒ Claim(s) 20-28 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☒ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>7/15/03, 9/13/05</u> . | 6) <input type="checkbox"/> Other: _____  |

## **DETAILED ACTION**

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 18 is rejected under 35 U.S.C. 102(e) as being anticipated by the admitted

Applicant prior art.

Regarding claim 18, the admitted prior art discloses a radio modem terminal for mobile communication, comprising:

a main body (see 10 fig.1) comprising a PC card (see par.10); and

a display unit (see 10.fig.1) connected to the main body, wherein the main body and the display unit form a mobile communication device.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-2 and 7, are rejected under 35 U.S.C. 103(a) as being unpatentable over Kido et al. (US Pub. 2001.0016508) in view of Park et al. (US Patent 6,731,753).

Regarding claim 1, Kido et al. disclose a radio modem terminal for mobile communication, comprising:

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a body (105, fig.3) comprising a functional unit which provides communication capability (see par.036);

Kido et al. fail to disclose a power supply unit rotatably connected to a first side of the body.

In the same field of endeavors, three rotatably portions, Park et al. disclose a power supply unit rotatably connected to a first side of the body (see col.3 lines 54-55). Therefore, It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Kido with the above teaching of Park in order to provide increasing user convenience, as cited by Park et al. (see col.2 lines 1-3).

The modified Kido et al. disclose a display unit (see Park, par.0016) connected to the first side of the body (see Park, 105, fig.3, par.036), wherein the display unit is connected between the power supply unit and the body.

Regarding claim 2, the modified Kido et al. disclose a hinge structure (see Kido, par.035) which rotatably connects the body, power supply unit (Park, see col.3 lines 54-55), and display unit (Kido, 102 fig.8), said hinge structure forming a foldable mobile communication device (see fig.8).

Regarding claim 7, the modified Kido et al. disclose a liquid crystal display with a touch pad (see Park, col.1 lines 44-45) attached thereto for receiving information from a user

Claims 3-6, are rejected under 35 U.S.C. 103(a) as being unpatentable over Kido et al. (US Pub. 2001.0016508) Park et al. (US Patent 6,731,753) and further in view of the admitted prior art.

Regarding claims 3-4, the modified Kido et al. fail to disclose the body comprises a standard PCMCIA TYPE 2 PC card, a connector which connects the radio modem terminal to a notebook computer, said connector coupled to a second side of the body.

The admitted prior art discloses the body comprises a standard PCMCIA TYPE 2 PC card (see par.5), a connector which connects the radio modem terminal to a notebook computer, said connector coupled to a second side of the body (see admitted prior art, fig.1). Therefore, It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of the modified Kido with the above teaching of the admitted prior art in order to provide a slot for PMCIA to interconnected with a notebook.

Regarding claim 5, the modified Kido et al. disclose an operation mode of the radio modem terminal is based on a connection between the radio modem terminal and the notebook (see the admitted prior art, par.6).

Regarding claim 6, the modified Kido et al. disclose a PC card mode if the radio modem terminal is connected to a notebook computer (see admitted prior art, par.7); and a mobile communication terminal mode with voice communication capability if the radio modem terminal is not connected to a notebook computer (see admitted prior art, par.10).

Claims 19, 30-3, are rejected under 35 U.S.C. 103(a) as being unpatentable over the admitted prior art in view of Park et al. (US Patent 6,731,753).

Regarding claims 19 and 31, the admitted prior art fails to disclose a power supply unit connected to the main body.

Park et al. disclose a power supply unit connected to the main body (see col.3 lines 54-55). Therefore, It would have been obvious to one of ordinary skill in the art at the time the

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invention was made to modify the system of the admitted prior with the above teaching of Park et al. in order to provide a convenience used device that have a power being arrange to other location such as the cover portion.

Regarding claims 29-30, the admitted prior art fails to disclose the display unit is configured to allow a user to input information.

Park et al. disclose the display unit is configured to allow a user to input information (see col.1 lines 42-43). Therefore, It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of the admitted prior art with the above teaching of Park et al. in order to provide a large screen display.

Claim 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over the admitted prior art in view of Kikinis et al. (US pub. 2001/0008000).

Regarding claim 32, the admitted prior art fails to disclose the PC card comprises:

An RF unit configured to process RF input signal;

A user interface configured to interface a signal transmitted to and received from the display unit; a memory unit configured to store operating data;

An audio interface unit configured to process a voice signal;

A controller configured to monitor a plurality of signals transmitted and received between functional units of the radio modem terminal and to control a plurality of corresponding operations; and

A connector formed at one end of the PC card and configured to connect the radio modem terminal to a notebook computer, wherein the connector is further configured to transmit a

plurality of signals to and receive a plurality of signals from the notebook computer when they are connected.

Kikinis et al. disclose:

An RF unit configured to process RF input signal (see par.061);

A user interface configured to interface a signal transmitted to and received from the display unit; a memory unit configured to store operating data (see 27, 13, fig.6);

An audio interface unit configured to process a voice signal (see par.0121);

A controller configured to monitor a plurality of signals transmitted and received between functional units of the radio modem terminal and to control a plurality of corresponding operations (see 11, fig.3); and

A connector formed at one end of the PC card and configured to connect the radio modem terminal to a notebook computer (see 14, fig.6), wherein the connector is further configured to transmit a plurality of signals to and receive a plurality of signals from the notebook computer when they are connected.

Therefore, It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of the admitted prior art with the above teaching of Kikinis et al. in order to provide interconnection data and voice between cellular phone to a laptop.

#### ***Allowable Subject Matter***

Claims 20-28, are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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The following is a statement of reasons for the indication of allowable subject matter:

Regarding claim 20, Alijadeff et al. disclose the display unit, main body, and power supply unit are rotatably connected to form a foldable type mobile communication device (see col.5 lines 50-51).


### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed Tu Nguyen whose telephone number is 571-272-7883. The examiner can normally be reached on Monday through Friday from 6:30AM-2:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Urban, can be reached at (571) 272-7899. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
April 18, 2006

  
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